Operation Manual

High Intensity UV-A Lighting Fixture

LT-150 Series

LONG-THROW™
LIGHTING SERIES

Wildfire®
LIGHTING & VISUAL EFFECTS
Ignite Your Imagination™

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Introduction

Congratulations on your purchase of a Wildfire Long-Throw 150 UV-A Lighting Fixture, legendary performance in an affordable compact size featuring lightweight, energy efficient electronic ballasting for flicker and noise free operation and versatile interchangeable reflectors for a wide variety of configurations. Additional safety features include automatic lamp failure shutdown, high temperature shutdown and hot re-strike protection. Please take a moment to read this manual thoroughly before attempting to operate this fixture. Improper set-up, use or servicing may cause damage to the fixture and/or lamp and void the unit's warranty.

Safety Statements

CAUTION – RISK OF EXPOSURE TO ULTRAVIOLET (UV) RADIATION, DO NOT OPERATE WITHOUT COMPLETE LAMP ENCLOSURE IN PLACE, OR IF FILTER GLASS LENS IS DAMAGED

DANGER – INTENSE HEAT. AVOID CONTACT BY PERSONS AND MATERIAL.

CAUTION – RISK OF ELECTRICAL SHOCK AND FIRE. DISCONNECT FIXTURE BEFORE RELAMPING. USE WITH MAX 250W LAMP TYPE M58 (WILDFIRE IRONARC MODEL LMP-250D). DRY LOCATIONS ONLY. NOT FOR RESIDENTIAL USE.

WARNING – THIS FIXTURE CONTAINS A HIGH INTENSITY UV METAL HALIDE LAMP, WHICH IS SAFELY CONTAINED WITHIN AN INTERLOCKING HOUSING. WHEN THIS FIXTURE IS USED IN ACCORDANCE WITH THE MANUFACTURERS OPERATING INSTRUCTIONS, NO HAZARDS EXIST TO MOST PEOPLE STANDING WITHIN THE BEAM OF THE FIXTURE. HOWEVER, INDIVIDUALS SUFFERING FROM A RANGE OF SUNLIGHT EXPOSURE DISORDERS, APHAKIC AND PSEUDOAPHIKIC, OR THOSE INDIVIDUALS RECEIVING PHOTOSENSITIVE MEDICATION MAY RECEIVE DISCOMFORT IF EXPOSED TO ULTRAVIOLET LIGHT.

HG – THE LAMP IN THIS FIXTURE CONTAINS MERCURY. MANAGE IN ACCORDANCE WITH DISPOSAL LAWS. SEE: WWW.LAMPRECYCLE.ORG OR CALL 1-800-937-8065

Specifications

Ballast:
Electronic, Power Factor > 92%
Rating:
120-277VAC / 50-60Hz. / 2.5 Amps Max / 150W
Ballast Features:
Flicker & Noise Free
Automatic Lamp Failure Shutdown
Automatic High Temperature Shut Down
Automatic Hot Re-strike Prevention
Circuit Protection:
3 Amp Magnetic Over-current Breaker Switch
Lamp:
Wildfire IronArc™ 150 Watt Metal Halide Model LMP-150S (1000 Hr. Rated)
Beam:
LT-150F: 90°
LT-150WS: 50°
LT-150F: 20°
Reflector:
Spun Peened Aluminum, Alzak Coated
Lenses:
6” Round Tempered Borosilicate UV-A Filter Glass
6” Round Clear Boro Float Glass
Peak Spectral Transmission:
350-365nm
Optimum Operating Temperature:
+50°F to +120°F
Weight:
14.30Lbs. / 6.48kg.
Dimensions:
7.88” / 20.01cm High x 7.38” / 18.75cm Wide x 12” / 30.48cm Long
Accessory Bracket:
7.5” / 19.05cm
Standard Equipment:
Lamp (139-001)
Quick Trigger Pipe Clamp (147-020)
Safety Cable (147-002)
Optional Accessories:
7.5” Barn Door (146-001)
8” DMX Dowser (147-003)
8” DMX Iris (145-001)
Floor Stand (147-007)

Specifications subject to change without notice

Made in the USA

Setup & Operation

Unpacking

Unpack the fixture and carefully inspect for any signs of physical damage. Report any damage to Wildfire or your local distributor immediately. Included with each unit should be the following items:

1. Pipe mounting clamp, designed to attach the fixture to a 11/2" to 2" pipe truss
2. Safety Cable, provided to secure the fixture when mounted on a pipe truss
3. Wildfire IronArc™ Lamp, Model LMP-150S

Before mounting the fixture you will need to install the lamp. Refer to Lamp Replacement on page 6 for correct installation.

Optional Accessories

Floor Stand- This aluminum stand set enables you to mount your Long-Throw fixture on the floor for footlight applications. Contact Wildfire or your local distributor for pricing.

Installation

After installing the lamp place the fixture in desired location. The fixture is equipped with a yoke assembly for mounting. The yoke may be fitted with either a pipe clamp (included) for mounting on a pipe truss or a baby bail block or junior pin for mounting on a light stand.

If the fixture is mounted on a pipe truss, be sure to use the included safety cable, looping it through the yoke assembly and around the pipe truss. This will prevent the fixture from falling and causing possible injury in the event that the pipe clamp was not securely tightened.

To adjust the angle of the fixture, loosen the knobs on either side of the unit slightly, rotate to desired angle and tighten. Care should be taken to support the front of the fixture while loosening the knobs to prevent the fixture from rotating forward and causing possible injury.

The fixture comes standard with a 7.5" Bracket assembly for attaching dowsers and scrollers such as Wybron's Eclipse or Coloram Series, as well as barndoors and other accessories. When using accessories with this fixture, be sure to attach the safety cable provided by the accessory manufacturer to the fixtures yoke assembly.

Plug the fixture into the appropriate power source. If you are controlling the unit with a lighting control board, you will need to make sure it is plugged into a non-dim circuit. If the fixture is plugged into a dimmable circuit, it will not operate.

Operation

To strike the fixture push the power/breaker switch to the on position. After striking the lamp allow at least 2 minutes for the lamp to get to full brightness. Once the fixture has been powered up and the lamp has ignited if you shut it off you will need to wait approximately 5 minutes to allow the lamp to cool before the fixture can re-strike.

If the power/breaker switch is left in the on position during the cool down period, the hot re-strike prevention circuitry in the ballast will prevent the lamp from striking until it is completely cooled. Once it has cooled sufficiently, it will strike automatically. This fixture is also equipped with automatic lamp failure protection circuitry that shuts the fixture down if the lamp should fail for any reason, preventing any damage to the fixture. In addition there is high temperature protection circuitry that shuts the fixture down if the ballast case temperature exceeds 85° C. When the fixture cools it will strike again automatically.

Maintenance & Troubleshooting

Lamp Replacement

Unplug the fixture. Remove any accessories from the front. Make sure the fixture is cool to the touch before opening the front lens assembly cover. Unhook the clasps on either side of the fixture allowing the front lens assembly cover to swing down. Although the LT-150 Series is designed to allow you to replace the lamp while the reflector is still in place the procedure is easier when the reflector is removed enabling full access to the socket (See Interchanging Reflectors below). Grasp the lamp in the center and pull forward to remove it from the socket. If the lamp is difficult to remove rocking it gently from side to side will help loosen it from the socket. Reverse this procedure to install the new lamp. Care should be taken not to touch the new lamp directly. Use a cloth or glove when handling. If you have touched the lamp, it must be cleaned with alcohol to remove any oils and fingerprints prior to striking. For maximum UV-A output, always use Wildfire IronArc™ lamps, and change the lamp in your fixture every 1000 hours.

Interchanging Reflectors

There are three different interchangeable reflectors available for the LT-150 Series, a 20° Spot (125-005-02), 50° Wide Spot (125-006-02) and 90° Flood (125-007-02). These reflectors are designed to be removed and replaced while the lamp is still in the fixture. To remove the reflector, unplug the fixture and remove any accessories from the front. Make sure the fixture is cool to the touch before opening the front lens assembly cover. Unhook the clasps on either side of the fixture allowing the front lens assembly cover to swing down. Loosen the four set screws securing the reflector to the brackets on either side of the lamp housing and slide the reflector forward out of the housing. Reverse this procedure to install the new reflector. The reflector attachment brackets are stamped with S, WS and F indicating the proper set position for each reflector.

Cleaning

For best performance, the reflector, lamp and filter lens should be kept free of dirt and dust. At no time should any cleaning chemicals or abrasives be used to clean any part of the fixture. Do not spray or apply any liquid directly to any part of the fixture. Always unplug the unit before cleaning. For normal cleaning, a dry soft cloth should be used to wipe any surface free from dust and light dirt. Cleaning the reflector will require that the lamp be removed. Remove the lamp by following the instructions listed under lamp replacement above. Once the lamp has been removed, gently wipe off the reflector using a soft dry cloth. In the event the reflector is heavily soiled, lightly dampen the cloth with a mild window cleaning agent and wipe clean. The filter lens can be cleaned in the same manner. The lamp should be cleaned with alcohol only.

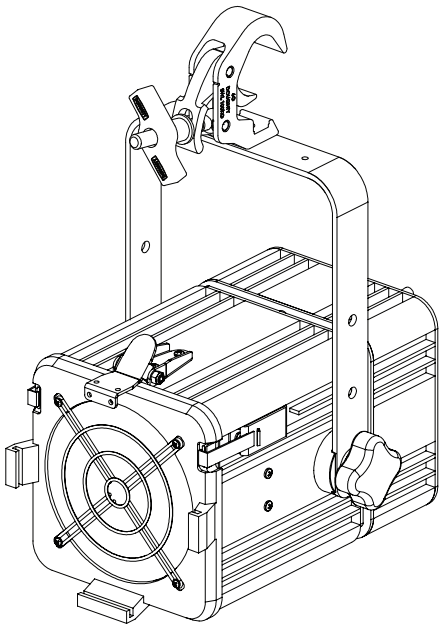
Troubleshooting

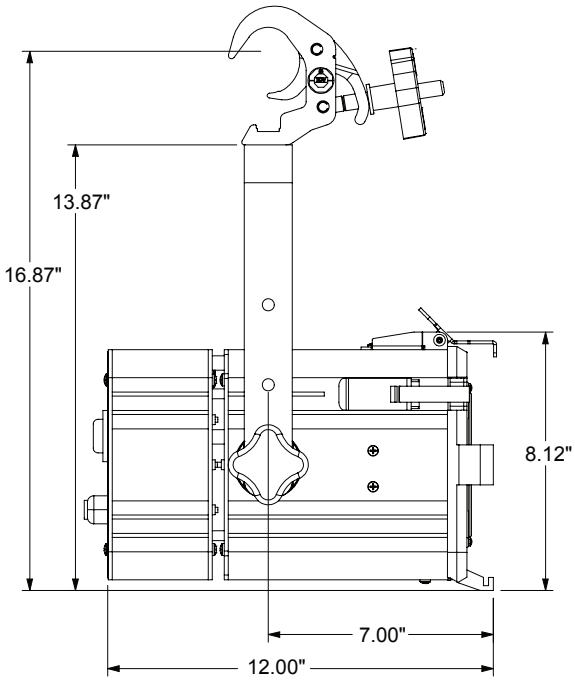
The fixture will not strike: – Check to make sure there is power to the fixture. Make sure the power/breaker switch on the back of the fixture has not been tripped. Unplug the unit. Check to see if it has a lamp installed and that it is seated properly in the socket (See Lamp Replacement above). Check to see if the safety cutoff switch is making contact by closing the lens cover and listening for a clicking sound. If the fixture still is not striking, try replacing the lamp. If you have checked all of the above and the fixture still won't strike, contact Wildfire technical support at (310) 755-6780 or your local distributor.

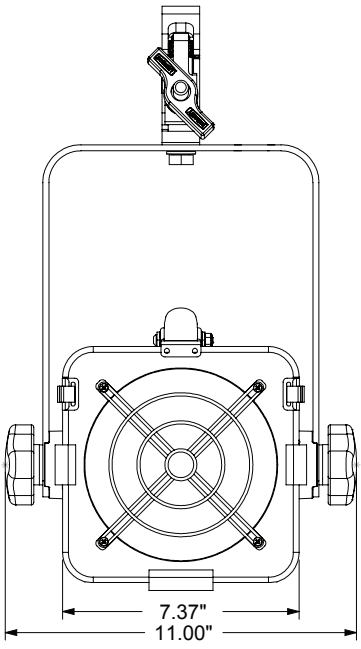
The effect is not working anymore: – Try changing the lamp. The lamp in your Wildfire fixture is rated at 1000 hours. This does not necessarily mean that the lamp will "burn out" or not light after 1000 hours. It may continue to burn for much longer period of time; however, the amount of UV it produces will be reduced considerably causing the effect to appear as though it isn't working. For maximum effect Wildfire recommends changing the lamp every 1000 hours.

Diagrams

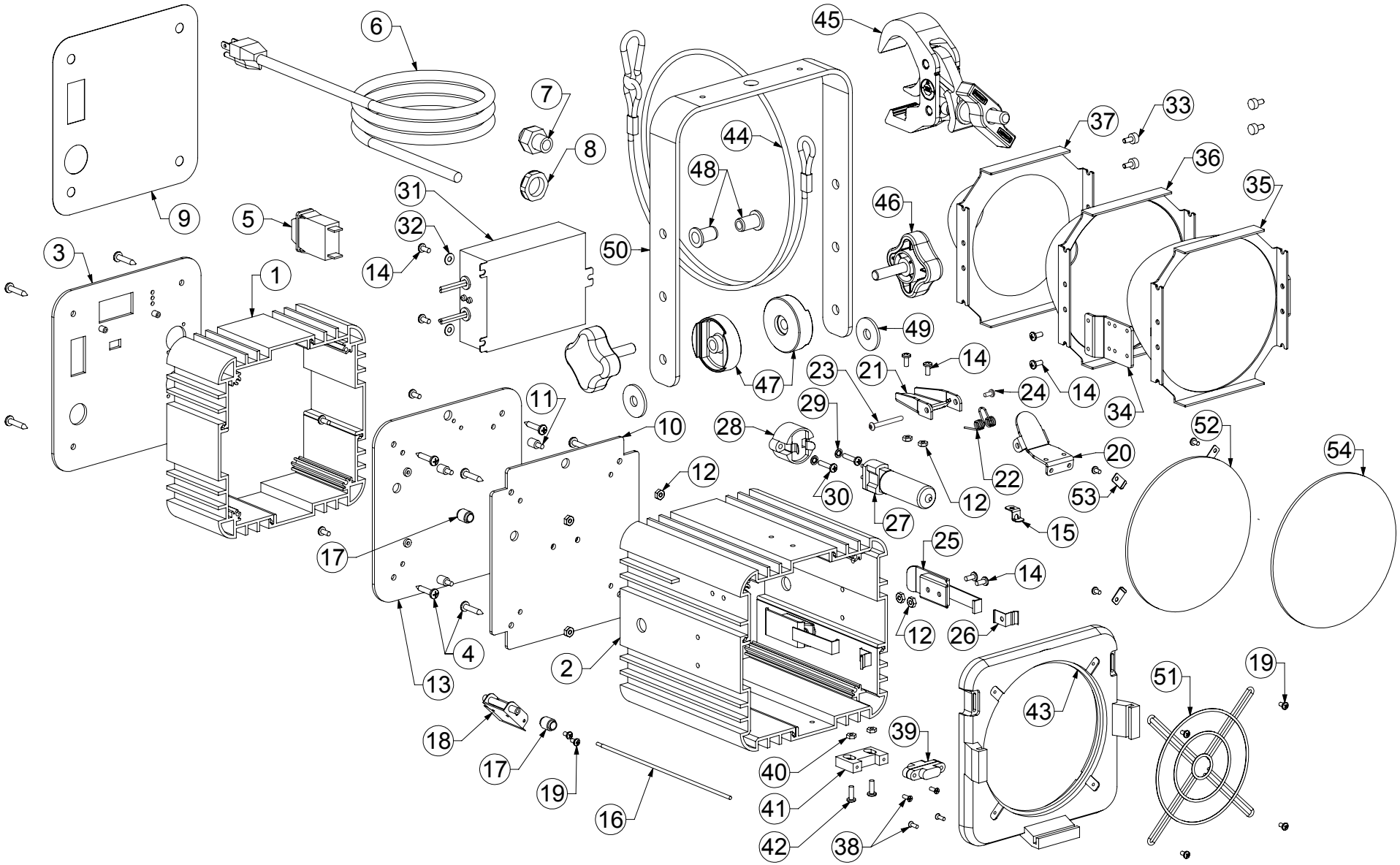
Isometric & Line Views







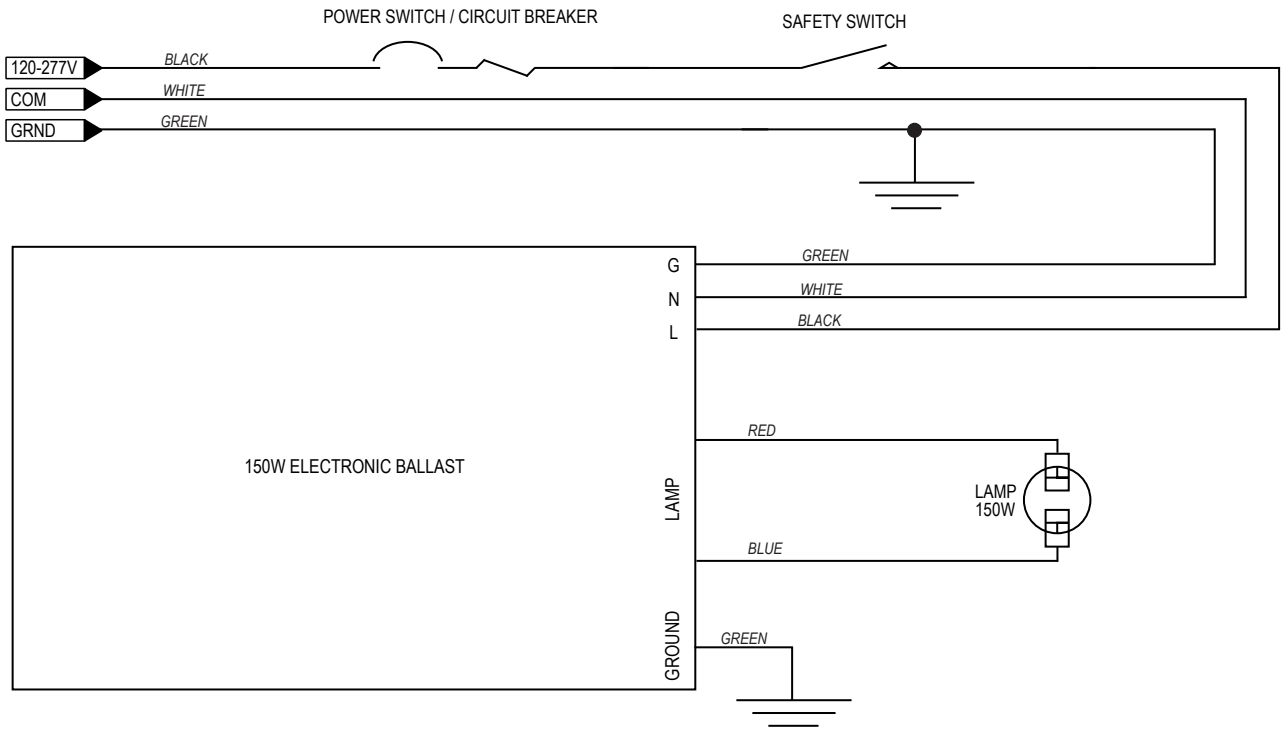
Exploded View



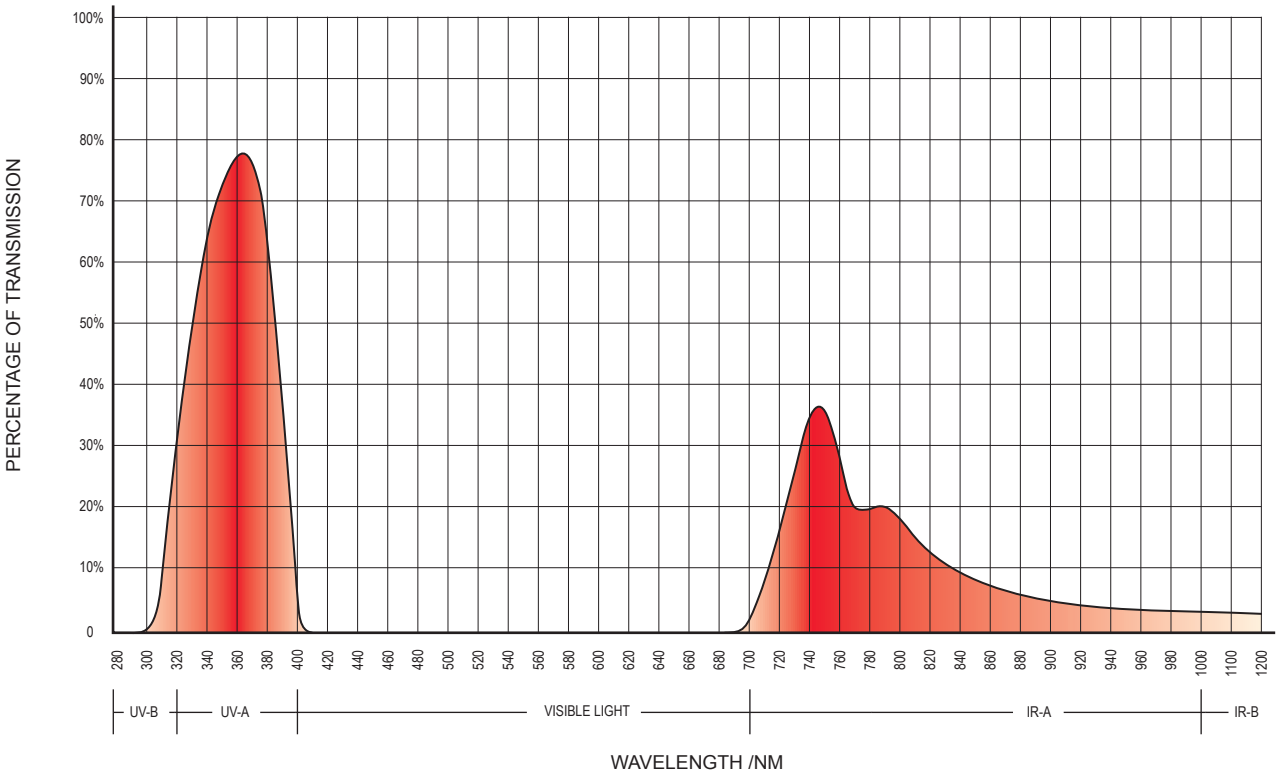
Part List

#	QTY.	PART #	PART NAME	#	QTY.	PART #	PART NAME
1	1	102-009-01	Housing, Ballast, LT-150 Series	28	1	108-002	Socket, Lamp, G12 Base, 150W
2	1	102-010-01	Housing, Lamp, LT-150 Series	29	2	121-061	Washer, Tooth, #8, 18-8 SS
3	1	104-043-03	Control Plate, Rear, LT-250	30	2	121-069	Screw, M, PHL, PH, 8-32 x 3/4", 18-8 SS
4	12	121-016	Screw, TD, SM, PHL, PH, #10 x 1" 18-8 SS	31	1	110-011	Ballast, MH, Electronic, 120-277V/50-60Hz/150W
5	1	105-001	Circuit Breaker, Carling, 3 Amp	32	3	121-059	Washer, Flat, #8, 18-8 SS
6	1	107-001	Cord, Power, 14 AWG, 9', 120V	33	4	121-020	Screw, M, TMB, 8-32 x 3/8" 18-8 SS
7	1	122-003	Strain Relief, Power Cord	34	2	104-006-01	Bracket, Reflector Mount
8	1	122-002	Jam Nut, Black, 1/2"	35	1	125-005-02	Reflector, LT-150S
9	1	128-015-01	Label, Control, LT-150	36	1	125-006-02	Reflector, LT-150WS
10	1	104-049-01	Divider Plate, Lamp, LT-150	37	1	125-007-02	Reflector, LT-150F
11	4	121-068	Standoff, M-F, 8/32 x 5/16" x 3/8"	38	4	121-004	Screw, M, PHL,FH, 5-40 x 3/8"
12	10	121-037	Kepnut, 8-32, 18-8 SS	39	1	118-001	Hinge, Soss, #101, Chrome
13	1	104-048-01	Divider Plate, Ballast, LT-150	40	2	121-039	Nut, SP, 8-32 18-8 SS
14	17	121-011	Screw, M, PHL, PH, 8-32 x 3/8", 18-8 SS	41	1	104-002-01	Bracket, Soss Hinge
15	1	104-016-01	Bracket, Switch Rod, Retaining	42	2	121-013	Screw, M, PHL, PH, 8-32 x 1/2" 18-8 SS
16	1	104-020-02	Rod, Switch, LT-250F & WS	43	1	103-001-09	Lens Door, 6" Round, LT-250
17	2	104-075-01	Bushing, Wire & Switch Routing	44	1	147-002	Cable, Safety, 1/8"
18	1	105-010	Switch, Safety Interlock	45	1	147-020	Clamp, Quick Trigger Slimline, Black
19	10	121-005	Screw, M, PHL, PH, 6-32 x 1/4" 18-8 SS	46	2	120-001	Knob, Yoke Adjustment, LT-Series
20	1	104-078-01	Latch, Accessory Safety Catch	47	2	103-006-01	Spacer, Yoke Assembly
21	1	104-077-02	Base, Accessory Safety Catch	48	2	121-032	Rivet Nut, Blind, 16 x 3/8"
22	1	104-098	Spring, Double Torsion	49	2	121-060	Washer, Flat, 1.25" OD, 13/32 ID, .13 Thk, 18-8 SS
23	1	121-027	Bolt, Barrel, M, COM, PH, .25” x 1.5” 18-8SS	50	1	104-032-05	Yoke, LT-250 & LT-150
24	1	121-026	Screw, M, COM, PH, 10-32, .25” 18-8 SS	51	1	104-026-01	Screen, Safety, LT-250
25	2	118-002	Draw Latch	52	1	124-003	Lens, Clear Boro Float, 6" Round
26	2	118-003	Catch, Secondary, Draw Latch	53	4	104-080-01	Clip, Filter Restraining
27	1	139-001	Lamp, MH, IronArc, SE, UV, 150W	54	1	123-003	Lens, UV, 6” Round

Schematic, LT-150 Series



Spectral Transmission Graph



Photometrics Chart

LT-150S Photometrics Chart

20° Spot

Distance in **Feet**/Meters

	5/1.52	**10**/3.05	**20**/6.10	**30**/9.14	**40**/12.19	**50**/15.24	**60**/18.29	**70**/21.33	**80**/24.38	**90**/27.43	**100**/30.48	**110**/33.53	**120**/36.57
Beam Diameter Feet	1.80	3.50	7.10	10.60	14.10	17.60	21.20	24.70	28.20	27.43	35.30	38.80	42.30
Beam Diameter Meters	.55	1.07	2.16	3.23	4.30	5.36	6.46	7.53	8.59	9.66	10.76	11.83	12.89
Peak UV-A Intensity µW/cm²	443.0	110.7	27.6	13.3	6.9	4.4	3.0	2.2	1.7	1.3	1.1	.92	.77

LT-150WS Photometrics Chart

50° Wide Spot

Distance in **Feet**/Meters

	5/1.52	**10**/3.05	**20**/6.10	**30**/9.14	**40**/12.19	**50**/15.24	**60**/18.29	**70**/21.33	**80**/24.38	**90**/27.43	**100**/30.48
Beam Diameter Feet	4.70	9.30	18.70	28.00	37.30	46.60	56.00	65.30	74.60	83.90	93.30
Beam Diameter Meters	1.43	2.83	5.70	8.53	11.37	14.20	17.07	19.90	22.74	25.57	28.44
Peak UV-A Intensity µW/cm²	393.0	98.2	24.5	10.9	6.1	3.9	2.7	2.0	1.5	1.2	.98

LT-150F Photometrics Chart

90° Flood

Distance in **Feet**/Meters

	5/1.52	**10**/3.05	**20**/6.10	**30**/9.14	**40**/12.19	**50**/15.24	**60**/18.29
Beam Diameter Feet	20.00	40.00	60.00	80.00	100.00	120.00	140.00
Beam Diameter Meters	6.10	12.19	18.29	24.38	30.48	36.57	42.67
Peak UV-A Intensity µW/cm²	308.0	77.0	19.2	8.5	4.8	3.0	2.1

Limited Warranty

Wildfire, Inc. warrants to the original owner or retail customer, that for a period of three years from the date of delivery of any Wildfire Fixture; whether used in a portable or permanent installation, such fixtures will be free from defects in material and workmanship under normal use and conditions.

Warranty does not cover any product or part of a product that has been subjected to accident, negligence, alteration, abuse or misuse and excludes any accessories or parts not supplied by Wildfire. Warranty does not cover expendable parts such as fuses, lamps, glass or any components warranted directly to the owner by the original manufacturer. This warranty does not extend to products not manufactured by Wildfire.

Wildfire's responsibility under this warranty shall be to repair or replace at Wildfire's discretion such parts as determined to be defective upon Wildfire's inspection. Wildfire will not assume any responsibility for any labor expended or materials used to repair any equipment without Wildfire's prior written authorization.

Wildfire, Inc. shall not be responsible for any incidental, general or consequential damages to property, damage for loss of use, time profits or income, or any other charges.

The owners' obligation during the warranty period is to notify Wildfire of any suspected defect, to obtain a return authorization number, and to return the product freight and insurance prepaid to the following address:

Wildfire Service, 2908 Oregon Court Suite G1, Torrance, CA 90503
(800) 937-8065 (310) 755-6780

Collect shipments for freight allowances or shipments without return authorization numbers will not be accepted.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER OBLIGATIONS AND LIABILITIES ON WILDFIRE'S PART. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE OWNER ACKNOWLEDGES THAT NO OTHER REPRESENTATIONS WERE MADE TO HIM WITH RESPECT TO THE QUALITY AND FUNCTION OF THE GOODS SOLD.

This written warranty is intended as a complete and exclusive statement of the terms thereof. Prior dealings or trade usage shall not be relevant to modify, explain or vary this warranty. Acceptance of, or acquiescing in, a course of performance under this warranty shall not modify the meaning of their agreement even though either party has knowledge of the performance and a chance to object.

This limited warranty gives you specific legal rights and you may also have other rights which vary from state to state. If any action or preceding results from this warranty, the prevailing party will be entitled to all costs and attorney fees incurred in defending or prosecuting such actions.

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